

IN THE CLAIMS:

Please cancel Claims 2-24. Please add the following new claims 25-40:

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-- 25. A nucleic acid molecule comprising
retroelements that comprise a recombinant provirus
when a target cell is infected by a retrovirus containing said
retroelements;
a nucleotide sequence of interest, which can be
expressed in the target cell and which can be transferred with
said retroelements into the target cell and integrated into the
recombinant provirus; and
a recognition sequence for the elimination of proviral
sequences in the recombinant provirus, which are not necessary
for expression of the nucleotide sequence of interest in the
target cell after integration of the recombinant provirus into
the target cell.

26. The nucleic acid molecule as claimed in Claim 25,
wherein said retroelements comprise cis-acting region and the
nucleotide sequence of interest is incorporated into the cis-
acting region.

27. The nucleic acid molecule as claimed in Claim 25,
wherein said retroelements comprise a 3' LTR or a 5' LTR region
and the nucleotide sequence of interest is incorporated into the
3' LTR or 5' LTR region.

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28. The nucleic acid molecule as claimed in Claim 25, wherein the retroelements comprise a U3 region of a 3' LTR, a U5 region of a 5' LTR, and an R region, and the nucleotide sequence of interest is incorporated into one of said regions.

29. The nucleic acid molecule as claimed in Claim 25, wherein the recognition sequence is recognized by a recombinase.

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cont
30. The nucleic acid molecule as claimed in Claim 29, wherein the recognition sequence, which can be recognized by a recombinase, is situated upstream or downstream from the nucleotide sequence of interest.

31. The nucleic acid molecule as claimed in Claim 25, wherein the recognition sequence is located upstream or downstream from the nucleotide sequence of interest.

32. The nucleic acid molecule as claimed in Claim 25, wherein said nucleic acid molecule comprises a nucleotide sequence coding for a recombinase that recognizes said recognition site.

33. The nucleic acid molecule as claimed in Claim 32, wherein the retroelements comprise 5' LTR and 3' LTR regions and the nucleotide sequence coding for the recombinase is situated between the 5' LTR and 3' LTR regions.

34. The nucleic acid molecule as claimed in Claim 32, wherein the nucleotide sequence coding for the recombinase encodes CRE protein.